

Application No.: 09/543,962

AMENDMENTS TO THE SPECIFICATION

Please substitute the following amended paragraph for the pending paragraph beginning on page 4, line 9:

The invention turns documents from a push technology, where items of content are sent to the document in a sequence, and at a rate, determined by a user, to a pull technology, where the document requests each item individually. Rather than creating a user-centric view of a document or a document collection, the invention provides a document-centric metaphor, which we call "Document Souls" in which each document can be considered to have a "soul" such that the Document Soul seeks to create an image of the world in light of its own contents.

Please substitute the following amended paragraph for the pending paragraph beginning on page 7, line 14:

Document souls provides end-to-end solution for document-based knowledge creation and sharing. Adding a "soul" to a document lets it assist a user in the acquisition, sharing and utilization of knowledge; the document soul creates a document view of the world as opposed to a global view as in current web portals. Document souls can be created to have a personality. Each personality encodes a collection of documents services which will allow the document to act autonomously on behalf of the creator or reader, anticipating the information needs of both the writer and reader of documents, keeping the document connected and up-to-date with the rest of information world. A personality ~~is~~ is a predetermined set of document service requests. A document, for example, may be given a personality that is inquisitive—a set of document service requests to find out more information about concepts present in the document content, find biographies of people mentioned in the content, polyglot—search out translations of the words, terms and phrases contained in the document, private—marked to keep the document's metadata invisible to other documents, scientific—search for online versions of the papers cited in the document content, or genealogical—looking for documents containing the same contents as itself.

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Please substitute the following amended paragraph for the pending paragraph beginning on page 10, line 6:

Meanwhile, the received document has become endowed with a TechWatch personality becoming a meta-document. It starts to find out the information the user might want about this company. ~~you're the~~ The user's meta-document becomes active by associating a TechWatch personality to it, it has thus acquired a set of unsatisfied document service requests defined in this personality. A scheduler begins polling this meta-document, and choosing from the list of unsatisfied document requests. One request is to identify all the company names, the products, and the people mentioned in this document. This request is sent off to some document service provider, such as a form of Inxight's ThingFinder. When the request is satisfied, the document analyzer places XML markings around the identified items, and makes up types lists of people, products, and organizations. Another subsequent document request uses this metadata to search the web for home pages of the mentioned companies. This request returns URL's to these companies' web pages, which are also stored as metadata or as new document content (as a footnote or reference).